

10/523263

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete If Known	
				Application Number	Not Yet Assigned 10/523,263
				Filing Date	Concurrently Herewith
				First Named Inventor	Gerrit Luinstra
				Art Unit	N/A 1626
				Examiner Name	Not Yet Assigned Reitsang Shiao
Sheet	1	of	1	Attorney Docket Number	13156-00001-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/R.S./	AA	US-3,260,738	07-12-1966	McClure et al.	
/R.S./	AB	US-4,620,033	10-28-1986	Isshiki et al.	
/R.S./	AC	US-6,084,124	07-04-2000	Slaugh et al.	

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
/R.S./	BA	GB-1,020,575	02-23-1966	Imperial Chemical Industries Limited		
/R.S./	BB	EP-0 577 206	01-05-1994	Shell Internationale Research		
/R.S./	BC	EP-0 688 806	12-27-1995	Tokuyama Corporation		
/R.S./	BC	JP-9 169 753	06-30-1997	Tokuyama Corporation		See Abstract
/R.S./	BE	WO-02/12161	02-14-2002	Kvaerner Process Technology Limited		
/R.S./	BF	WO-03/050154	06-19-2003	Cornell Research Foundation Inc.		
/R.S./	BG	WO-2004/012861	02-12-2004	BASF		

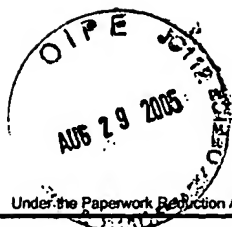
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Examiner Signature	/Rei Tsang Shiao/	Date Considered	06/15/2007
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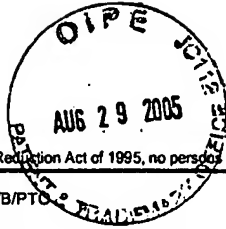
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		Application Number	10/523263-Conf. #1826		
		Filing Date	March 7, 2005		
		First Named Inventor	Gerrit Luinstra		
		Art Unit	N/A 1626		
		Examiner Name	Not Yet Assigned Reitsang Shiao		
Sheet	1	of	2	Attorney Docket Number	13156-00001-US

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/R.S./	AA*	US-5,310,948	05-10-1994	Drent et al.	
/R.S./	AB*	US-5,731,402	03-24-1998	Nishida et al.	

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/R.S./	CA	Furukawa et al., "Copolymerization of Carbon Monoxide with Alkylene Oxide", <i>Die Makromolekulare Chemie</i> , Vol. 89, pp. 263-268 (1965).		
	CB	Kamiya et al., "The Reaction Of Small Ring Compound With Carbon Monoxide The Carbonylation Of Oxirane", <i>Chemistry Letters</i> , pp. 1549-1552 (1980).		
	CC	Kowalczyk et al., "Synthesis Of New Glycidylxypropiolactones", <i>Polish Journal Of Chemistry</i> , Vol. 55, pp. 1965-1967 (1981).		
	CD	Rossiter, "Synthetic Aspects and Applications of Asymmetric Epoxidation", <i>Asymmetric Synthesis</i> , Vol. 5, pp. 193-246 (1985).		
	CE	Finn et al., "On the Mechanism of Asymmetric Epoxidation with Titanium - Tartrate Catalysts", <i>Asymmetric Synthesis</i> , Vol. 5, pp. 247-308 (1985).		
	CF	Gao et al., "Catalytic Asymmetric Epoxidation and Kinetic Resolution: Modified Procedures Including in Situ Derivatization", <i>J. Am. Chem. Soc.</i> , Vol. 109, pp. 5765-5780 (1987).		
	CG	Schreiber et al., "Application of the Two-Directional Chain Synthesis Strategy to the First Stereochemical Assignment of Structure to Members of the Skipped-Polyol Polyene Macrolide Class: Mycotlicin A and B", <i>J. Am. Chem. Soc.</i> , Vol. 109, pp. 8120-8122 (1987).		
	CH	Jacobsen et al., "Enantioselective Catalytic Ring Opening of Epoxides with Carboxylic Acids", <i>Tetrahedron Letters</i> , Vol. 38, No. 5, pp. 773-776 (1997).		
	CI	Furrow et al., "Practical Access to Highly Enantioenriched C-3 Building Blocks via Hydrolytic Kinetic Resolution", <i>J. Org. Chem.</i> , Vol. 63, pp. 6776-6777 (1998).		
	CJ	Jacobsen, "Asymmetric Catalysis of Epoxide Ring-Opening Reactions", <i>Acc. Chem. Res.</i> , Vol. 33, pp. 421-431 (2000).		
	CK	Lee et al., "Synthesis of β -Lactones by the Regioselective, Cobalt and Lewis Acid Catalyzed Carbonylation of Simple and Functionalized Epoxides", <i>J. Org. Chem.</i> , Vol. 66, pp. 5424-5426 (2001).		
	CL	Getzler et al., "Synthesis of β -Lactones: A Highly Active and Selective Catalyst for Epoxide Carbonylation", <i>J. Am. Chem. Soc.</i> , Vol. 124, No. 7, pp. 1174-1175 (2002).		
/R.S./	CM	Mahadevan et al., "[Lewis Acid]+[Co(CO) ₄]-Complexes: A Versatile Class of Catalysts for		
Examiner Signature	/Rei Tsang Shiao/			Date Considered
				06/18/2007



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		Art Unit	N/A 1626		
		Examiner Name	Not Yet Assigned Reitsang Shiao		
Sheet	2	of	2	Attorney Docket Number	13156-00001-US

/R.S.		Carbonylative Ring Expansion of Epoxides and Aziridines", <i>Angew. Chem. Int. Ed.</i> , Vol. 41, No. 15, pp. 2781-2784 (2002).	
/R.S.	CN	Molnar et al., "Multisite Catalysis: A Mechanistic Study of β -Lactone Synthesis from Epoxides and CO--Insights into a Difficult Case of Homogeneous Catalysis", <i>Chem. Eur. J.</i> , Vol. 9, No. 6, pp.1273-1280 (2003).	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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